COMMUNITY DEVELOPMENT DEPARTMENT

CITY OF SANTA BARBARA SEA-LEVEL RISE ADAPTATION PLAN SUBCOMMITTEE

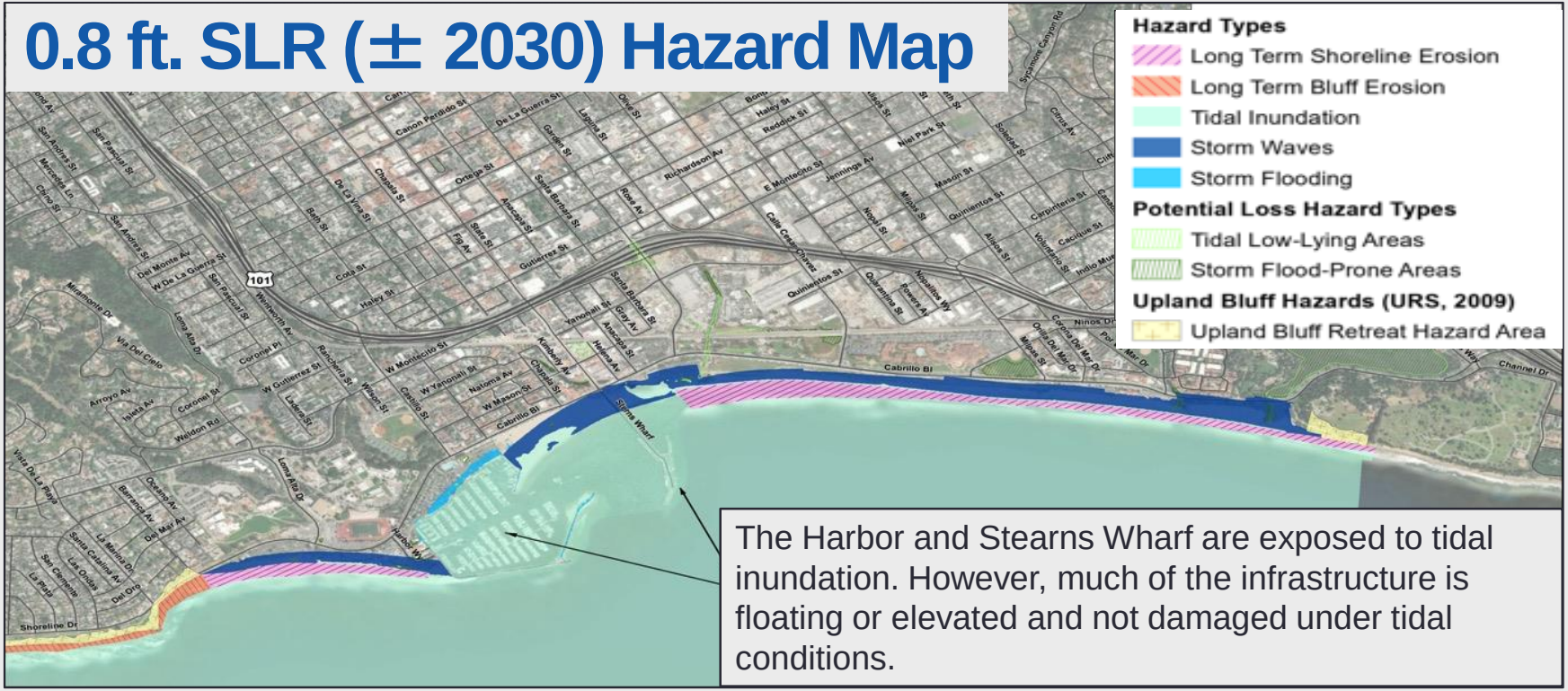
November 18, 2020

Agenda

A. Comments/edits to Draft Adaptation Plan
    1. Timing of largescale flood protection
    2. Assumptions in the near-term recommendations.
    3. Role of Subcommittee moving forward
B. Components of Subcommittee recommendation to Council
C. Upcoming meetings
D. Public Comment

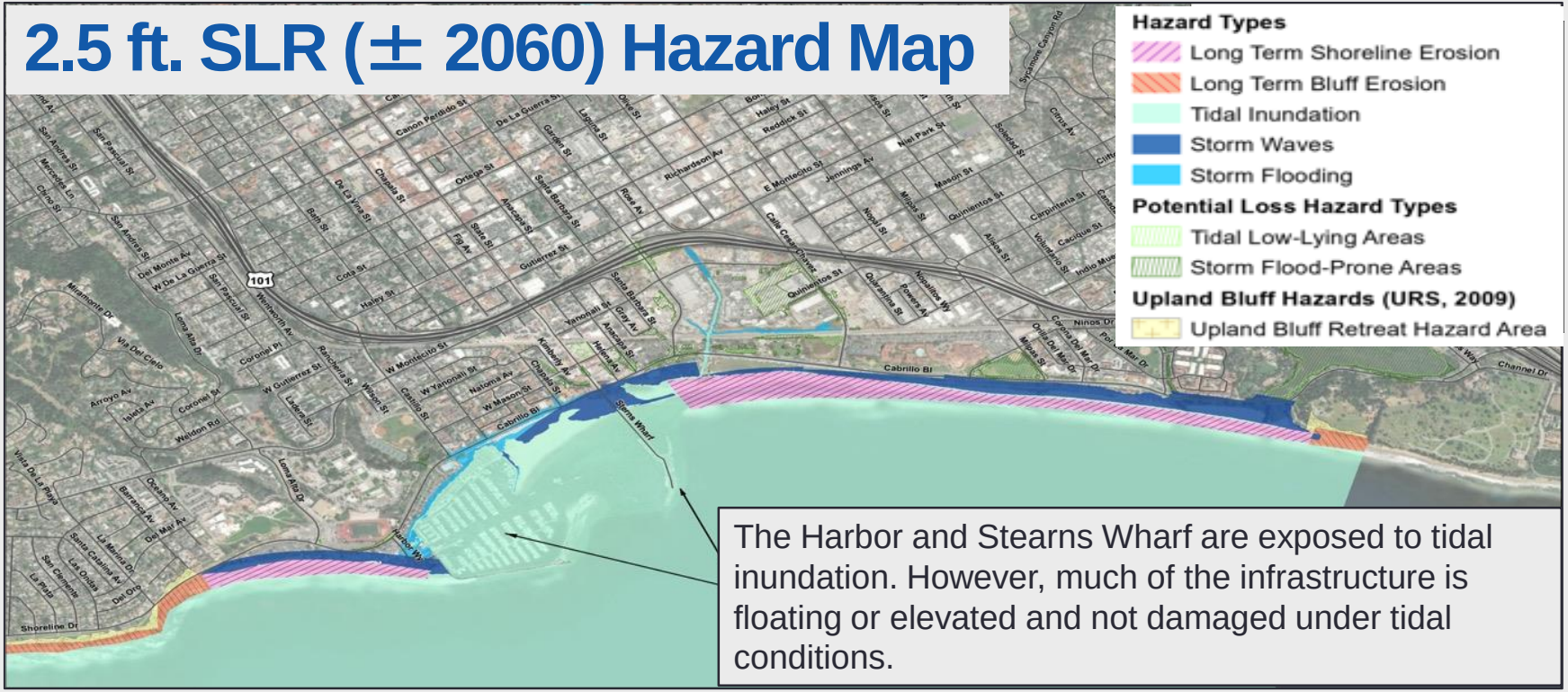
COMMENTS/EDITS TO DRAFT ADAPTATION PLAN CONTINUED

0.8 ft. SLR (± 2030) Hazard Map



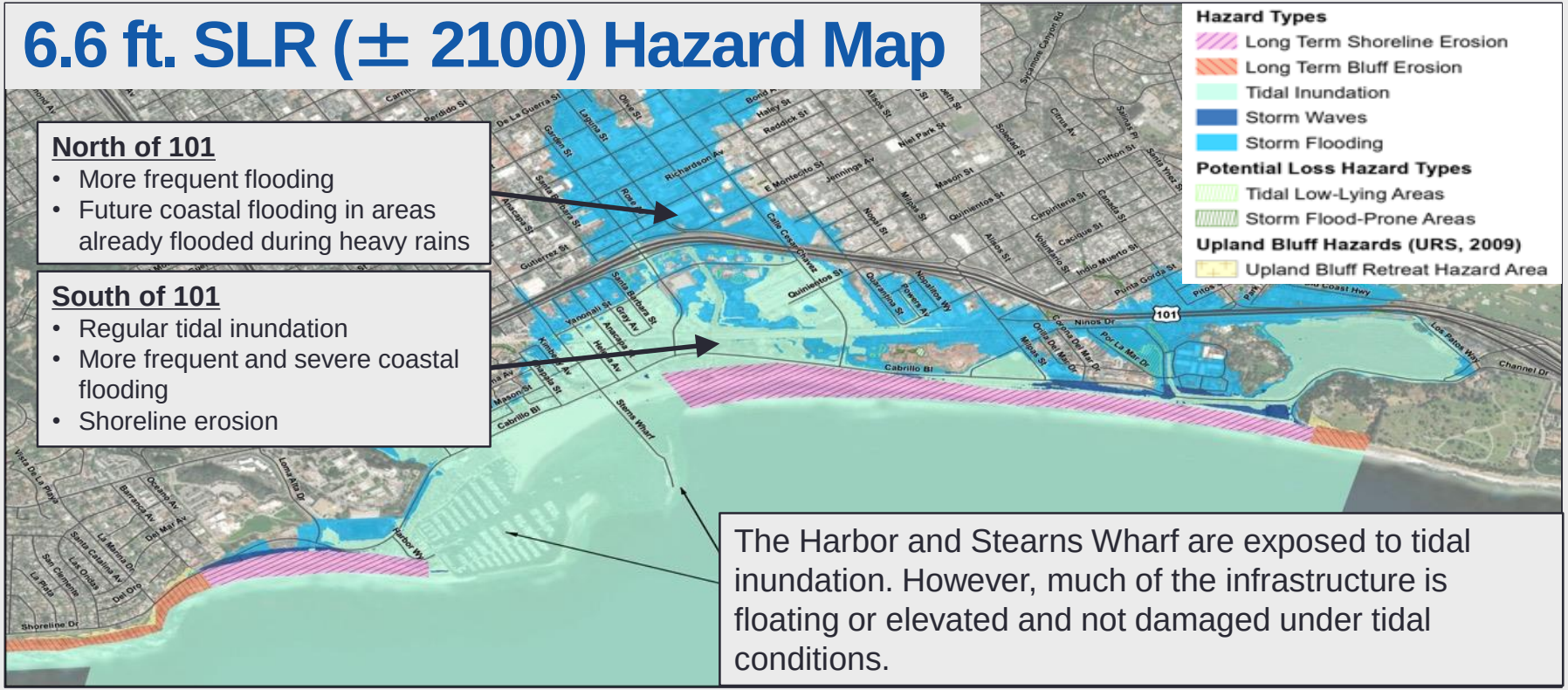
The Harbor and Stearns Wharf are exposed to tidal inundation. However, much of the infrastructure is floating or elevated and not damaged under tidal conditions.

2.5 ft. SLR (± 2060) Hazard Map



The Harbor and Stearns Wharf are exposed to tidal inundation. However, much of the infrastructure is floating or elevated and not damaged under tidal conditions.

6.6 ft. SLR (± 2100) Hazard Map



North of 101
- More frequent flooding
- Future coastal flooding in areas already flooded during heavy rains

South of 101
- Regular tidal inundation
- More frequent and severe coastal flooding
- Shoreline erosion

The Harbor and Stearns Wharf are exposed to tidal inundation. However, much of the infrastructure is floating or elevated and not damaged under tidal conditions.

Recap of Timing of Largescale Flood Protection

- Thresholds:
  - As reach 2 feet of sea-level rise assets closest to shore could be addressed case by case
  - Between 2-3 feet of sea-level rise beach nourishment and/or use of groins will not prevent large portions of Cabrillo Boulevard from being threatened by flooding and erosion

Recap of Timing of Largescale Flood Protection

- Thresholds:
  - Storm flooding:
    - *Goes North of Cabrillo at 3.3 feet slr*
    - *Goes North of Highway 101 at 5.7 feet slr*
  - Tidal inundation:
    - *Goes north of Cabrillo at 4.1 feet of slr*

Recap of Timing of Largescale Flood Protection

- Needed by 2.5 feet of slr:
  - Begin segments of seawalls/levees in most threatened areas
  - Begin segments of floodwalls up Mission, Laguna, Sycamore Creeks
  - Begin some stormwater pumping
  - Possible need for groundwater dewatering

Recap of Timing of Largescale Flood Protection

- Needed by 3-4 feet of slr (maybe sooner):
  - Completion of seawall/levees
  - Expansion of creek floodwalls
  - Groundwater dewatering
  - Stormwater pumping
- Planning and permitting: 1 to 1.5 feet slr

Recap of Timing of Largescale Flood Protection

- Studies needed in near-term:
  - Feasibility of seawall/levee system
  - Study of flood hazards associated interaction of fluvial flooding with sea-level rise
  - Feasibility and potential impacts of groundwater pumping
  - Case law

Assumptions in Near-Term Recommendations

- Protecting Harbor through near and mid-term
- City will not be moving El Estero soon, so we should floodproof the existing system assuming El Estero in place for foreseeable future.
- City itself is not proactively protecting the bluffs in the near-term except where Shoreline Drive threatened.

Role of Subcommittee Moving Forward

- Discuss

COMPONENTS OF SUBCOMMITTEE RECOMMENDATION

Potential Staff Recommended Council Actions

- Adoption of Adaptation Plan
- Direct staff to begin implementation of plan, including development of a 5-Year Implementation Plan.
- Initiation of LCP Amendment to update the Coastal LUP's Shoreline Hazards Screening Map and other policy edits to implement plan.

UPCOMING MEETINGS

Upcoming Meetings

- December 2nd
  - Presentation on changes made to plan and any new information (socioeconomic)
  - Draft recommendation
- December 9th

PUBLIC COMMENT

Click “raise your hand” icon  to speak